

V.S.B. ENGINEERING COLLEGE, KARUR
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Academic Year: 2018-2019 (EVEN SEMESTER)
Assignment Questions

Name of the Course (Subject): Software Project Management

Name of the Faculty member : S.Gunasekaran

Class/Semester : IV Year / VII Semester B.E. CSE 'A' Sections

SI. No.	Reg. No.	Name of the Student	Assignment Question
1	922515104001	AKILARASU S	An employee of a training organization has the task of creating case study exercises and solutions for a training course which teaches a new systems analysis and design method. The person's work plan has a three week task learn new method. A colleague suggests that this is unsatisfactory as a task as there are no concrete deliverable or products from the activity. What can be done about this?
2	922515104002	ANITHA P	In order to carry out usability tests for a new word processing package, the software has to be written and debugged. User instructions have to be available describing hoe the package is to be used. These have to be scrutinized in order to plan and design the tests. Subjects who will use the package in the test will need to be selected. As part of this selection process, they will have to complete a questionnaire giving details of their past experience of, and training in , typing and using word processing package. The subjects will carry out the required tasks using the word processing package. The tasks will be timed and any problems the subjects encounter with the package will be noted. After the test, the subject will complete another questionnaire about what they felt about the package. All the data from the tests will be analyzed and a report containing recommendations for changes the to package will be drawn up. Draw up a product Breakdown Structure, A product Flow Diagram and a preliminary activity network for the above.
3	922515104003	ANUSUYA E	Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur. (a) a key member of the programming team leaving (b) a new version of the operating system being introduced which has errors in it. (c) a disk containing copies of the most up to date version of the software under development being corrupted. (d) system testing unearths more errors than were expected and takes longer than planned. (e) the government changes the taxation rules which alter the way that VAT is to be calculated in an order processing system under development.

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4	922515104004	ARJUN C	Working in a group of three or four imagine that you are about to embark upon a programming assignment as part of the assessed work for your course. Draw up a list of the risks that might affect the assignment outcome. Individually classify the importance and likelihood of each of those risk as high, medium or low. When you have done this compare your results and try to come up with an agreed project risk matrix.																														
5	922515104005	ARUNKUMAR K	A software package is to be designed and built to assist in software cost estimation. It will input certain parameters and produce initial cost estimates to be used at bidding time. (a) It has been suggested that a software prototype would be of value in these circumstances. Explain why this might be. (b) Discuss how such prototyping could be controlled to ensure that it is conducted in an orderly and effective way and within a specified rime span.																														
6	922515104006	ARUNKUMAR M	<p>Consider the details held about previously developed modules shown in table. Anew module has seven inputs, one entity type access and seven outputs. Which of the modules a to e is the closest analogy in terms of Euclidean distance? Data concerning previously developed modules.</p> <table border="1"> <thead> <tr> <th>Module</th> <th>Entity Types Accessed</th> <th>Inputs</th> <th>Outputs</th> <th>Days</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1</td> <td>2</td> <td>10</td> <td>2.60</td> </tr> <tr> <td>B</td> <td>10</td> <td>2</td> <td>1</td> <td>3.90</td> </tr> <tr> <td>C</td> <td>5</td> <td>1</td> <td>1</td> <td>1.83</td> </tr> <tr> <td>D</td> <td>2</td> <td>3</td> <td>11</td> <td>3.50</td> </tr> <tr> <td>E</td> <td>1</td> <td>2</td> <td>20</td> <td>4.30</td> </tr> </tbody> </table>	Module	Entity Types Accessed	Inputs	Outputs	Days	A	1	2	10	2.60	B	10	2	1	3.90	C	5	1	1	1.83	D	2	3	11	3.50	E	1	2	20	4.30
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7	922515104007	ARUNKUMAR S	A report in a college time – tabling system produces a report showing the students who should be attending each time tables teaching activity. Four files are accessed. The staff file, the student file, the student option file and the teaching activity file. The report contains the following information. For each teaching activity: Teaching activity reference Topic name Staff Forename Staff Surname																														

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			<p>Title Semester(1 or 2) Day of week Time Duration Location For each student Student Forename Student Surname</p> <p>Calculate both IFPUG and Mark II FPs that this transaction would generate. Can you identify the factors that would tend to make the two methods generate divergent counts?</p>
8	922515104008	ARUN KUMAR V	<p>Identify size and productivity effort drivers for the following activities: Installing computer workstations in a new office. Transporting assembled personal computers from the factory where they were assembled to warehouse distributed in different parts of the country. Typing in and checking the correctness of data that is populating a new database. System testing a newly written software application.</p>
9	922515104009	BASKARAN P	<p>In each of the following cases discuss whether the type of application software to be adopted would be most likely to be bespoke, off-the-shelf or COTS. (a) A college requires a student fees application. It is suggested that the processes required in the application are similar to those of any billing system with some requirements that are peculiar to the administration of higher education. (b) A computer based application is needed at IOE to hold personnel details of staff employed. (c) A national government requires a system that calculates records and notifies individual tax payers about income tax charges. (d)A hospital needs a knowledge based system to diagnose the causes of eye complaints.</p>
10	922515104011	CHANDRA R	<p>An organization has detected low job satisfaction in the following departments. The system testing group. The computer applications help desk Computer batch input.</p>
11	922515104012	DEEPA J	<p>Three different mental obstacles to good decision making were identified in the text. faulty heuristics, escalation of commitment and information overload. What steps do you think can be taken to reduce the danger of each of these?</p>

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12	922515104013	DHAMODHARAN P	<p>Compute the effort estimate for the following specification using intermediate COCOMO model, state any assumptions made clearly. The software is to be developed for a “communication Processing” function using microprocessors. The size of the embedded software is 10KLOC . The product complexity is rated to be very high, the programmer capability rated as low and the main storage constraint is high and the respective efforts multipliers can be taken 1.30, 1.17 and 1.06. All other cost drivers are assumed to take their normal values</p>
13	922515104014	DHARANI M	<p>As a project manager you are requested to perform the effort estimation for a Air traffic control project The following project related information are available to you; The software has three modules with 5KLOC, 2KLOC and 3KLOC respectively. The effort multipliers for (1) Data base size (2) Product complexity and (3) Programmer capability are given as 0.95, 1.25 and 0.8 respectively. All other cost drivers have only nominal effect, hence the effort multiplication factor for each of them can be assumed to be 1.0.</p>
14	922515104015	DHARANI N	<p>A list of your top ten risks. These should be placed in order, with your biggest risk first—and don’t forget to describe how you ranked them. For each risk, describe: what the risk is? a mitigation strategy for the risk? a contingency plan for the risk? how you will know when to invoke the contingency plan?</p>
15	922515104016	DHIVYA R	<p>A description of the process you will use for managing risk. This can be relatively brief (less than one page of text), but should be detailed enough so that each member of the team understands his/her role in managing risk. For example, Will individual members of the team be authorized to carry out parts of your risk management strategy, or will the whole team need to meet and agree each action? How often will you update your list of top ten risks?</p>

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16	922515104017	DIVYADHARSHINI M	<p>To help you manage risks, you need to take regular measurements of the status of your project. Choose a suitable set of project metrics that you will collect during your project, to help you monitor risk. Describe five of these metrics in detail, including:</p> <p>What you think it might tell you?</p> <p>Whether it is a measure of your product , or a measure of the development process?</p> <p>How frequently you plan to collect the data?</p> <p>How much effort you think it will take to collect (e.g in minutes per week)?</p> <p>Whether the method for making the measurements is algorithmic or subjective?</p> <p>Whether the scale used for the metric is nominal, ordinal, interval, or ratio?</p>																																				
17	922515104018	GAYATHRI C	<p>You have been appointed as a project manager within an information system organization. Your job is to build an application that is quite similar to others your team has built, although this one is larger and more complex. Requirements have been thoroughly documented by the customer. What team structure would you choose and why? What software process model(s) would you choose and why?</p>																																				
18	922515104019	GAYATHRI G	<p>Draw an activity using precedence network convention for the project specified in table. Calculate earliest starts and completion date and also the latest start and completion date for the project and identify the critical path on the network.</p> <table border="1"> <thead> <tr> <th>Activity Key</th> <th>Activity description</th> <th>Duration(weeks)</th> <th>Precedents</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Hardware selection</td> <td>8</td> <td></td> </tr> <tr> <td>B</td> <td>Software Design</td> <td>6</td> <td></td> </tr> <tr> <td>C</td> <td>Install hardware</td> <td>4</td> <td>A</td> </tr> <tr> <td>D</td> <td>Code and Test</td> <td>4</td> <td>B</td> </tr> <tr> <td>E</td> <td>File take on</td> <td>4</td> <td>B</td> </tr> <tr> <td>F</td> <td>User manual</td> <td>12</td> <td></td> </tr> <tr> <td>G</td> <td>User training</td> <td>4</td> <td>E,F</td> </tr> <tr> <td>H</td> <td>Install</td> <td>3</td> <td>C,D</td> </tr> </tbody> </table>	Activity Key	Activity description	Duration(weeks)	Precedents	A	Hardware selection	8		B	Software Design	6		C	Install hardware	4	A	D	Code and Test	4	B	E	File take on	4	B	F	User manual	12		G	User training	4	E,F	H	Install	3	C,D
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19	922515104020	GEETHAPRIYA M	<p>Three different mental obstacles to good decision making were identified in the text. faulty heuristics, escalation of commitment and information overload. What steps do you think can be taken to reduce the danger of each of these?</p>																																				
20	922515104021	GOKULAPRIYA P	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur.</p> <p>(a) a key member of the programming team leaving</p> <p>(b) a new version of the operating system being introduced which has errors in it.</p> <p>(c) a disk containing copies of the most up to date version of the software under development being corrupted.</p>																																				

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21	922515104022	GOPI S	<p>A software package is to be designed and built to assist in software cost estimation. It will input certain parameters and produce initial cost estimates to be used at bidding time.</p> <p>(a) It has been suggested that a software prototype would be of value in these circumstances. Explain why this might be.</p> <p>(b) Discuss how such prototyping could be controlled to ensure that it is conducted in an orderly and effective way and within a specified time span.</p>
22	922515104023	GOWTHAM P	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur.</p> <p>(a) system testing uncovers more errors than were expected and takes longer than planned.</p> <p>(b) the government changes the taxation rules which alter the way that VAT is to be calculated in an order processing system under development.</p>
23	922515104024	HARIBASKER S	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur.</p> <p>(a) system testing uncovers more errors than were expected and takes longer than planned.</p> <p>(b) a new version of the operating system being introduced which has errors in it.</p> <p>(c) a disk containing copies of the most up to date version of the software under development being corrupted.</p>
24	922515104025	HEERA K	<p>A description of the process you will use for managing risk. This can be relatively brief (less than one page of text), but should be detailed enough so that each member of the team understands his/her role in managing risk.</p> <p>For example, How will your team monitor risk? What process will you use for deciding when to invoke a contingency plan? How will you handle emergencies?</p>
25	922515104026	HEMALATHA P	<p>To help you manage risks, you need to take regular measurements of the status of your project. Choose a suitable set of project metrics that you will collect during your project, to help you monitor risk. Describe five of these metrics in detail, including:</p> <ol style="list-style-type: none"> 1.What you think it might tell you? 2.Whether it is a measure of your product , or a measure of the development process? 3.How frequently you plan to collect the data? 4.How much effort you think it will take to collect (e.g in minutes per week)? 5.Whether the method for making the measurements is algorithmic or subjective? 6.Whether the scale used for the metric is nominal, ordinal, interval, or ratio?

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26	922515104027	INDHIRA R	<p>In each of the following cases discuss whether the type of application software to be adopted would be most likely to be bespoke, off-the-shelf or COTS.</p> <p>(a) A college requires a student fees application. It is suggested that the processes required in the application are similar to those of any billing system with some requirements that are peculiar to the administration of higher education.</p> <p>(b) A computer based application is needed at IOE to hold personnel details of staff employed.</p> <p>(c) A national government requires a system that calculates records and notifies individual tax payers about income tax charges.</p> <p>(d) A hospital needs a knowledge based system to diagnose the causes of eye complaints.</p>
27	922515104028	IZASAHMED K	<p>An employee of a training organization has the task of creating case study exercises and solutions for a training course which teaches a new systems analysis and design method. The person's work plan has a three week task learn new method. A colleague suggests that this is unsatisfactory as a task as there are no concrete deliverable or products from the activity. What can be done about this?</p>
28	922515104029	JEEVITHA D	<p>In order to carry out usability tests for a new word processing package, the software has to be written and debugged. User instructions have to be available describing how the package is to be used. These have to be scrutinized in order to plan and design the tests. Subjects who will use the package in the test will need to be selected. As part of this selection process, they will have to complete a questionnaire giving details of their past experience of, and training in, typing and using word processing package. The subjects will carry out the required tasks using the word processing package. The tasks will be timed and any problems the subjects encounter with the package will be noted. After the test, the subject will complete another questionnaire about what they felt about the package. All the data from the tests will be analyzed and a report containing recommendations for changes to the package will be drawn up. Draw up a product Breakdown Structure, A product Flow Diagram and a preliminary activity network for the above.</p>
29	922515104030	JEEVITHA P	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur.</p> <p>(a) a key member of the programming team leaving</p> <p>(b) a new version of the operating system being introduced which has errors in it.</p> <p>(c) a disk containing copies of the most up to date version of the software under development being corrupted.</p> <p>(d) system testing uncovers more errors than were expected and takes longer than planned.</p> <p>(e) the government changes the taxation rules which alter the way that VAT is to be calculated in an order processing system under development.</p>

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30	922515104032	KARTHIKEYAN B	Working in a group of three or four imagine that you are about to embark upon a programming assignment as part of the assessed work for your course. Draw up a list of the risks that might affect the assignment outcome. Individually classify the importance and likelihood of each of those risk as high, medium or low. When you have done this compare your results and try to come up with an agreed project risk matrix.																														
31	922515104033	KARTHIK KUMAR M	A software package is to be designed and built to assist in software cost estimation. It will input certain parameters and produce initial cost estimates to be used at bidding time. (a) It has been suggested that a software prototype would be of value in these circumstances. Explain why this might be. (b) Discuss how such prototyping could be controlled to ensure that it is conducted in an orderly and effective way and within a specified rime span.																														
32	922515104034	KATHIGA S	Consider the details held about previously developed modules shown in table. Anew module has seven inputs, one entity type access and seven outputs. Which of the modules a to e is the closest analogy in terms of Euclidean distance? Data concerning previously developed modules.																														
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33	922515104035	KAVIN KUMAR K	A report in a college time – tabling system produces a report showing the students who should be attending each time tables teaching activity. Four files are accessed. The staff file, the student file, the student option file and the teaching activity file. The report contains the following information. For each teaching activity: Teaching activity reference Topic name Staff Forename Staff Surname Title Semester(1 or 2)																														

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34	922515104036	KAVIPRIYA S	<p>Identity size and productivity effort drivers for the following activities: Installing computer workstations in a new office. Transporting assembled personal computers from the factory where they were assembled to warehouse distributed in different parts of the country. Typing in and checking the correctness of data that is populating a new database. System testing a newly written software application.</p>
35	922515104037	KERUTHIKA M	<p>In each of the following cases discuss whether the type of application software to be adopted would be most likely to be bespoke, off-the-shelf or COTS.</p> <p>(a) A college requires a student fees application. It is suggested that the processes required in the application are similar to those of any billing system with some requirements that are peculiar to the administration of higher education.</p> <p>(b) A computer based application is needed at IOE to hold personnel details of staff employed.</p> <p>(c) A national government requires a system that calculates records and notifies individual tax payers about income tax charges.</p> <p>(d) A hospital needs a knowledge based system to diagnose the causes of eye complaints.</p>
36	922515104038	KIRUTHIGA M	<p>An organization has detected low job satisfaction in the following departments.</p> <p>The system testing group. The computer applications help desk Computer batch input.</p>
37	922515104039	KISHODH V P	<p>Three different mental obstacles to good decision making were identified in the text. faulty heuristics, escalation of commitment and information overload. What steps do you think can be taken to reduce the danger of each of these?</p>

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38	922515104040	LINTA KURIAKOSE	<p>Compute the effort estimate for the following specification using intermediate COCOMO model, state any assumptions made clearly. The software is to be developed for a “communication Processing” function using microprocessors. The size of the embedded software is 10KLOC . The product complexity is rated to be very high, the programmer capability rated as low and the main storage constraint is high and the respective efforts multipliers can be taken 1.30, 1.17 and 1.06. All other cost drivers are assumed to take their normal values.</p>
39	922515104041	MADHUMATHI S	<p>As a project manager you are requested to perform the effort estimation for a Air traffic control project The following project related information are available to you; The software has three modules with 5KLOC, 2KLOC and 3KLOC respectively. The effort multipliers for (1) Data base size (2) Product complexity and (3) Programmer capability are given as 0.95, 1.25 and 0.8 respectively. All other cost drivers have only nominal effect, hence the effort multiplication factor for each of them can be assumed to be 1.0.</p>
40	922515104042	MAHALAKSHMI V	<p>A list of your top ten risks. These should be placed in order, with your biggest risk first—and don’t forget to describe how you ranked them. For each risk, describe: what the risk is? a mitigation strategy for the risk? a contingency plan for the risk? how you will know when to invoke the contingency plan?</p>
41	922515104043	MALATHI T	<p>A description of the process you will use for managing risk. This can be relatively brief (less than one page of text), but should be detailed enough so that each member of the team understands his/her role in managing risk. For example, Will individual members of the team be authorized to carry out parts of your risk management strategy, or will the whole team need to meet and agree each action? How often will you update your list of top ten risks?</p>

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42	922515104044	MANIKHANDAN N	<p>To help you manage risks, you need to take regular measurements of the status of your project. Choose a suitable set of project metrics that you will collect during your project, to help you monitor risk. Describe five of these metrics in detail, including:</p> <ol style="list-style-type: none"> 1.What you think it might tell you? 2.Whether it is a measure of your product , or a measure of the development process? 3.How frequently you plan to collect the data? 4.How much effort you think it will take to collect (e.g in minutes per week)? 5.Whether the method for making the measurements is algorithmic or subjective? 6.Whether the scale used for the metric is nominal, ordinal, interval, or ratio? 																																				
43	922515104045	MANIRATHNAM R	<p>You have been appointed as a project manager within an information system organization. Your job is to build an application that is quite similar to others your team has built,although this one is larger and more complex. Requirements have been thoroughly documented by the customer. What team structure would you choose and why? What software process model(s) would you choose and why?</p>																																				
44	922515104046	MANJARI P	<p>Draw an activity using precedence network convention for the project specified in table. Calculate earliest starts and completion date and also the latest start and completion date for the project and identify the critical path on the network.</p> <table border="1"> <thead> <tr> <th>Activity Key</th> <th>Activity description</th> <th>Duration(weeks)</th> <th>Precedents</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Hardware selection</td> <td>8</td> <td></td> </tr> <tr> <td>B</td> <td>Software Design</td> <td>6</td> <td></td> </tr> <tr> <td>C</td> <td>Install hardware</td> <td>4</td> <td>A</td> </tr> <tr> <td>D</td> <td>Code and Test</td> <td>4</td> <td>B</td> </tr> <tr> <td>E</td> <td>File take on</td> <td>4</td> <td>B</td> </tr> <tr> <td>F</td> <td>User manual</td> <td>12</td> <td></td> </tr> <tr> <td>G</td> <td>User training</td> <td>4</td> <td>E,F</td> </tr> <tr> <td>H</td> <td>Install</td> <td>3</td> <td>C,D</td> </tr> </tbody> </table>	Activity Key	Activity description	Duration(weeks)	Precedents	A	Hardware selection	8		B	Software Design	6		C	Install hardware	4	A	D	Code and Test	4	B	E	File take on	4	B	F	User manual	12		G	User training	4	E,F	H	Install	3	C,D
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45	922515104047	MATHANABHARATHI S A	<p>Three different mental obstacles to good decision making were identified in the text. faulty heuristics, escalation of commitment and information overload. What steps do you think can be taken to reduce the danger of each of these?</p>																																				
46	922515104048	MUHAMADHU RABIK A	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur. (a) a key member of the programming team leaving (b) a new version of the operating system being introduced which has errors in it. (c) a disk containing copies of the most up to date version of the software under development being corrupted.</p>																																				

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47	922515104049	MUTHUKUMAR M	<p>A software package is to be designed and built to assist in software cost estimation. It will input certain parameters and produce initial cost estimates to be used at bidding time.</p> <p>(a) It has been suggested that a software prototype would be of value in these circumstances. Explain why this might be.</p> <p>(b) Discuss how such prototyping could be controlled to ensure that it is conducted in an orderly and effective way and within a specified time span.</p>
48	922515104050	NANDHINI K	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur.</p> <p>(a) system testing uncovers more errors than were expected and takes longer than planned.</p> <p>(b) the government changes the taxation rules which alter the way that VAT is to be calculated in an order processing system under development.</p>
49	922515104051	NANDHINI M	<p>Identify the actions that could prevent each of the following risks from materializing or could reduce the impact if it did occur.</p> <p>(a) system testing uncovers more errors than were expected and takes longer than planned.</p> <p>(b) a new version of the operating system being introduced which has errors in it.</p> <p>(c) a disk containing copies of the most up to date version of the software under development being corrupted.</p>
50	922515104052	NANDHINI R	<p>A description of the process you will use for managing risk. This can be relatively brief (less than one page of text), but should be detailed enough so that each member of the team understands his/her role in managing risk.</p> <p>For example,</p> <ol style="list-style-type: none"> 1. How will your team monitor risk? 2. What process will you use for deciding when to invoke a contingency plan? 3. How will you handle emergencies?
51	922515104055	NIMMAGADDA LOWKYA	<p>help you manage risks, you need to take regular measurements of the status of your project. Choose a suitable set of project metrics that you will collect during your project, to help you monitor risk. Describe five of these metrics in detail, including:</p> <ol style="list-style-type: none"> 1. What you think it might tell you? 2. Whether it is a measure of your product, or a measure of the development process? 3. How frequently you plan to collect the data?

Sl. No.	Reg. No.	Name of the Student	Assignment Question
52	922515104301	GANESHAMOORTHY	<p>In each of the following cases discuss whether the type of application software to be adopted would be most likely to be bespoke, off-the-shelf or COTS.</p> <p>(a) A college requires a student fees application. It is suggested that the processes required in the application are similar to those of any billing system with some requirements that are peculiar to the administration of higher education.</p> <p>(b) A computer based application is needed at IOE to hold personnel details of staff employed.</p> <p>(c) A national government requires a system that calculates records and notifies individual tax payers about income tax charges.</p> <p>(d) A hospital needs a knowledge based system to diagnose the causes of eye complaints.</p>

Signature of the Faculty Member

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V.S.B. ENGINEERING COLLEGE, KARUR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2018-2019 (EVEN SEMESTER)

Assignment Questions

Name of the Course (Subject) : Human Computer Interaction

Name of the Faculty member : P.Krishnamoorthy

Class/Semester : IV Year / VIII Semester B.E. CSE 'A' Section

Sl. No.	Reg. No.	Name of the Student	Assignment Question
1	922515104001	AKILARASU S	1. Briefly describe about the elements of WIMP interface. 2. Write short notes on dialog overlay and detail overlay.
2	922515104002	ANITHA P	1. Illustrate various types of interaction styles with an example. 2. Describe the factors that can limit the speed of an interactive computer system.
3	922515104003	ANUSUYA E	write short notes on the following i) Terms of Interaction. ii) Norman's Execution – Evaluation Cycle. iii) Interaction Framework.
4	922515104004	ARJUN C	1. Design a web interface for a Airline reservation system. State the functional requirements of system. 2. Define tabs. List and explain its types.

5	922515104005	ARUNKUMAR K	<p>1. Explain the purpose of drag and drop with neat diagram.</p> <p>2. Suggest ideas for an interface which uses the properties of sound effectively.</p>
6	922515104006	ARUNKUMAR M	<p>Devise experiments to test the properties of (i) short-term memory (ii) long-term memory, using the experiments described. Try out your experiments on your friends. Are your results consistent with the</p>
7	922515104007	ARUNKUMAR S	<p>Identify the goals and operators involved in the problem ‘delete the second paragraph of the document’ on a word-processor. Now use a word processor to delete a paragraph and note your actions, goals and sub-goals. How well did they match your description?</p>
8	922515104008	ARUN KUMAR V	<p>Observe skilled and novice operators in a familiar domain, for example, touch and ‘hunt-and-peck’ typists, expert and novice game players, or expert and novice users of a computer application. What differences can you discern between their behaviors?</p>
9	922515104009	BASKARAN P	<p>What input and output devices would you use for the following systems? For each, compare and contrast alternatives, and if appropriate indicate why the conventional keyboard, mouse and c.r.t screen may be less suitable.</p> <ul style="list-style-type: none"> a) portable word processor b) tourist information system c) tractor-mounted crop-spraying controller
10	922515104011	CHANDRA R	<p>What influence does the social environment in which you work have on your interaction with the computer? What effect does the organization (commercial or academic) to which you belong have on the interaction?</p>
11	922515104012	DEEPA J	<p>List the guidelines that are provided and classify them in terms of the activity in the software life cycle to which they would most likely apply.</p>
12	922515104013	DHAMODHARAN P	<p>What is the distinction between a process-oriented and a structure-oriented design rationale technique? Would you classify psychological design rationale as process- or structure-oriented? Why?</p>

13	922515104014	DHARANI M	<p>1. What new paradigms do you think may be significant in the future of interactive computing?</p> <p>2. What factors are likely to delay the widespread use of video in interfaces? What applications could benefit most from its use?</p>
14	922515104015	DHARANI N	<p>What are the benefits and problems of using video in experimentation? If you have access to a video recorder, attempt to transcribe a piece of action and conversation (it does not have to be an experiment — a soap opera will do!). What problems did you encounter?</p>
15	922515104016	DHIVYA R	<p>Take your university website or another site of your choice and assess it for accessibility using Bobby. How would you recommend improving the site?</p>
16	922515104017	DIVYADHARSHINI M	<p>Interview either (i) a person you know over 65 or (ii) a child you know under 16 about their experience, attitude and expectations of computers. What factors would you take into account if you were designing a website aimed at this person?</p>
17	922515104018	GAYATHRI C	<p>What are the benefits and problems of using video in experimentation? If you have access to a video recorder, attempt to transcribe a piece of action and conversation (it does not have to be an experiment - a soap opera will do!). What problems did you encounter?</p>
18	922515104019	GAYATHRI G	<p>1. What input and output devices would you use for the following systems? For each, compare and contrast alternatives, and if appropriate indicate why the conventional keyboard, mouse and c.r.t screen may be less suitable.</p> <p>a) Air traffic control system b) Worldwide personal communications system</p> <p>c) Digital cartographic system</p>
19	922515104020	GEETHAPRIYA M	<p>1. Explain the different types of mobile applications with an example</p> <p>2. Describe in detail about the Contextual Tools that are available in web design interface.</p>
20	922515104021	GOKULAPRIYA P	<p>A group of universities has decided to collaborate to produce an information system to help potential students find appropriate courses. The system will be distributed free to schools and careers offices on CD-ROM and will provide information about course contents and requirements, university and local facilities, fees and admissions procedures. Identify the main stakeholders for this system, categorize them and describe them and their activities, currently and with regard to the proposed system, using the CUSTOM framework</p>

21	922515104022	GOPI S	1. Write short notes on i) web servers and web clients ii) Network issues.
22	922515104023	GOWTHAM P	1. Explain the types of mobile application mediums with its pros and cons. 2. Who is stakeholder? Outline the types of stake holder and appraise the stakeholders for an airline booking system.
23	922515104024	HARIBASKER S	1. Describe face to face communication with an example. 2. Brief the layers of mobile ecosystems with neat diagram.
24	922515104025	HEERA K	The following is a list of objects found in one of the authors' kitchens: teapot, mug, soup bowl, plate, spoon, table knife, cook's knife, fork, saucepan, frying pan, kettle, casserole, fish slice, tin opener, baking tray, scales, mixing bowl, glasses, jugs, corkscrew, rolling pin, ladle, egg cup, chopping board Produce a taxonomy using the TDH notation of these objects. Does it obey the TAKD uniqueness rule? Compare your answer with someone else's. (Note: the authors had great difficulty with items like the corkscrew, which did not fit easily into any generic category – perhaps you did better).
25	922515104026	HEMALATHA P	1. List and explain the elements of mobile design. 2. Explain in detail about human input and output channels.
26	922515104027	INDHIRA R	Write short notes on the following i) Socio Technical Models ii) Soft Systems Methodology.
27	922515104028	IZASAHMED K	Discuss the impact of inefficient screen design on processing time with an example. Discuss the history of screen design.

28	922515104029	JEEVITHA D	Experiment with the 'back' button on different browsers, help systems, etc. Record systematically the behavior as you visit pages and use the 'back' button, and try to build a model (informal or formal) of the system. Pay particular attention to what happens if you revisit the same page during the same 'drill down' and the behavior in systems with multiple windows/frames. (Note that this behavior does differ dramatically even between different versions of the same web browser.)
29	922515104030	JEEVITHA P	Discuss the important human characteristics which have influence on interface and screen design. Describe the architecture design and software process.
30	922515104032	KARTHIKEYAN B	Write short notes on the following i) Cognitive Models ii) Mobile Information Architecture.
31	922515104033	KARTHIK KUMAR M	Discuss in detail about events available that are available for cueing the user during a drag and drop interaction? Explain the Inlays and Virtual Pages in detail?
32	922515104034	KATHIGA S	Explain briefly about Mobile Information Architecture. Describe about the Mobile Ecosystem: Platforms, Application frameworks
33	922515104035	KAVIN KUMAR K	Explain the different types of Communication and collaboration models? Explain in details the Socio-Organizational issues and stake holder requirements?
34	922515104036	KAVIPRIYA S	Using a graphics package such as Adobe Photoshop or Macromedia Fireworks, save different types of image (photographs, line drawings, text) in different formats (GIF, JPEG, PNG). Compare the file sizes of the different formats, experimenting with different compression ratios (where applicable), numbers of colours, etc.
35	922515104037	KERUTHIKA M	Explain the different levels of Cognitive models? Describe in detail about the software life cycle.
36	922515104038	KIRUTHIGA M	Explain briefly about HCI in software process. Explain briefly about Iteration and prototyping.

37	922515104039	KISHODH V P	<p>Explain the following Application Frameworks in detail</p> <ol style="list-style-type: none"> Java S60 BREW Flash Lite Windows Mobile
38	922515104040	LINTA KURIAKOSE	<p>List and explain some of the Games that can be developed for mobiles application with real time examples. What Is Information Architecture? List Different Information Architecture for Different Devices.</p>
39	922515104041	MADHUMATHI S	<p>What are the challenges present in display based Systems What are the different types of physical device models available in cognitive model?</p>
40	922515104042	MAHALAKSHMI V	<p>Discuss about Shneiderman's 8 Golden Rules of interface design and Norman's 7 Principles for transforming difficult task in to a simple one.</p>
41	922515104043	MALATHI T	<p>What can a system designer do to minimize the memory load of the user? What are <i>mental models</i>, and why are they important in interface design?</p>
42	922515104044	MANIKHANDAN N	<p>Individually or in a group find as many different examples as you can of physical controls and displays (a) List them. (b) Try to group them, or classify them (c) Discuss whether you believe the control or display is suitable for its purpose</p>
43	922515104045	MANIRATHNAM R	<p>Explain in detail about interaction styles? List the elements of the WIMP interface in details.</p>
44	922515104046	MANJARI P	<p>Explain in detail about different types of memory, storage format and method of access? Explain in detail about finite processor speed and interactive performance?</p>
45	922515104047	MATHANABHARATHI S A	<p>Discuss the important human characteristics which have influence on interface and screen design Give the brief history of screen design and State the screen design goals</p>
46	922515104048	MUHAMADHU RABIK A	<p>Discuss the impact of inefficient screen design on processing time with an example Explain data, architectural and procedural design principles for the software in HCI.</p>

47	922515104049	MUTHUKUMAR M	Explain the following platforms in detail a. Licensed b. Proprietary c. Open Source
48	922515104050	NANDHINI K	Explain in detail about face to face communication? Explain in detail about conversation?
49	922515104051	NANDHINI M	Explain in detail about global structure hierarchical organization and dialog? Explain in brief about Screen-based controls? Give the guidelines for selecting the proper controls in screen design.
50	922515104052	NANDHINI R	Define Design? List and explain the golden rules of design. Explain in detail about user focus.
51	922515104055	NIMMAGADD A LOWKYA	Explain in detail about evaluation through expert analysis and evaluation through participation? Explain iterative waterfall software life cycle and discuss various activities in each phase
52	922515104301	GANESHAMOORTHY	What is meant by multi modal interaction? Explain in detail What is meant by designing for diversity? Explain in detail

Signature of the Faculty Member

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V.S.B. ENGINEERING COLLEGE, KARUR

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year: 2018-2019 (EVEN SEMESTER)

Assignment Questions

Name of the Course (Subject) : Multicore Architecture and Programming

Name of the Faculty member : D.Satishkumar

Class/Semester : IV Year / VIII Semester B.E. CSE 'A' Section

Sl. No.	Reg. No.	Name of the Student	Assignment Question
1	922515104001	AKILARASU S	Fundamentals of instruction pipeline for superscalar processor design
2	922515104002	ANITHA P	Memory hierarchy design, cache memory - fundamentals and basic optimizations
3	922515104003	ANUSUYA E	Cache memory – advanced optimizations, performance improvement techniques
4	922515104004	ARJUN C	gem5 simulator – build and run, address translations using TLB and page table.
5	922515104005	ARUNKUMAR K	DRAM – organisation, access techniques, scheduling algorithms and signal systems.
6	922515104006	ARUNKUMAR M	Tiled Chip Multicore Processors (TCMP)
7	922515104007	ARUNKUMAR S	Network on Chips (NoC)
8	922515104008	ARUN KUMAR V	NoC router – architecture, design, routing algorithms and flow control techniques.:

	922515104009	BASKARAN P	Advanced topics in NoC and storage
10	922515104011	CHANDRA R	Compression, prefetching, QoS.
11	922515104012	DEEPA J	Multiprocessor Computer Architecture: Why, How and What's next?
12	922515104013	DHAMODHARAN P	QoS for TCMPs at Storage and Interconnect Levels" Tiled Chip Multi-Core Processors & Network-on-Chip"
13	922515104014	DHARANI M	Network-on-Chip Architectures"
14	922515104015	DHARANI N	Advanced Cache Optimizations
15	922515104016	DHIVYA R	Tiled Chip Multi-Core Processors & Network-on-Chip
16	922515104017	DIVYADHARSHINI M	Basic Cache Optimizations
17	922515104018	GAYATHRI C	Cache Memory Design Concepts
18	922515104019	GAYATHRI G	DRAM Technology"
19	922515104020	GEETHAPRIYA M	Pipelined Instruction Execution Principles
	922515104021	GOKULAPRIYA P	Cache Memory Design Concepts
21	922515104022	GOPI S	Course Introduction in cache
22	922515104023	GOWTHAM P	Pipelined Instruction Execution Principles

23	922515104024	HARIBASKER S	Storage and Interconnects
	922515104025	HEERA K	What is the power wall in (single-core) processor architecture, and why does it lead to the development of multicore architectures? Give a quantitative argument.
25	922515104026	HEMALATHA P	Design and Analysis of Parallel Algorithms
26	922515104027	INDHIRA R	Analyze the sequential time complexity of the Multiply algorithm for a problem size n . Assume that length- n additions and subtractions can be done in time $\Theta(n)$. Assume that a direct multiplication for "small" constant n (e.g., for $n = 1$) takes constant time. (1p)
27	922515104028	IZASAHMED K	Identify which calculations could be executed in parallel, and sketch a parallel Multiply algorithm in pseudocode (shared memory). (1p)
28	922515104029	JEEVITHA D	Analyze your parallel Multiply algorithm for its parallel execution time, parallel work and parallel cost (each as a function in n , using big-O notation) for a problem size n using n processors. Assume that length- n additions and subtractions can be done in time $\Theta(n)$ and can be parallelized perfectly across up to n threads. Assume that a direct multiplication for "small" n (e.g., $n = 1$) takes constant time. (A solid derivation of the formulas is expected; just guessing the right answer gives no points.)
29	922515104030	JEEVITHA P	How would you adapt the algorithm to work for a fixed number p of processors? What will then be its parallel time with p processors? (1.5p)
30	922515104032	KARTHIKEYAN B	Which fundamental algorithmic design pattern is used in the Multiply algorithm? (0.5p)
31	922515104033	KARTHIK KUMAR M	Analyze the sequential time complexity of the Multiply algorithm for a problem size n . Assume that length- n additions and subtractions can be done in time $\Theta(n)$. Assume that a direct multiplication for "small" constant n (e.g., for $n = 1$) takes constant time. (1p)
32	922515104034	KATHIGA S	Caches and the Memory System
33	922515104035	KAVIN KUMAR K	CPU Architecture & SIMD

34	922515104036	KAVIPRIYA S	Multiprocessors and Cache Consistency
35	922515104037	KERUTHIKA M	SIMD Instructions
36	922515104038	KIRUTHIGA M	Mention two categories of parallel computers and explain them with their architectures
37	922515104039	KISHODH V P	Explain different types of data dependence with the help of each
38	922515104040	LINTA KURIAKOSE	Trace out the following program to detect parallelism using Bernstein's conditions: i. VLIW architecture ii. Arithmetic pipelining design iii. Control flow vs Data Flow
39	922515104041	MADHUMATHI S	Explain how pipelining is implemented in MIPS.
40	922515104042	MAHALAKSHMI V	Discuss and compare the characteristics of RISC & CISC architectures
41	922515104043	MALATHI T	Discuss and compare the following i. Super scalar processing ii. Pipelining Techniques
42	922515104044	MANIKHANDAN N	Advanced Microarchitecture and Instruction-Level Parallelism
43	922515104045	MANIRATHNAM R	Architecture Implementation Issues and Analysis
44	922515104046	MANJARI P	Performance-tuning and Analysis of Modern Applications
45	922515104047	MATHANABHARATHI S A	Thread-Level Parallelism • Multicore systems • Thread control models (fine-grained, coarse-grained, hyper-threading)
46	922515104048	MUHAMADHU RABIK A	Data-Level Parallelism
47	922515104049	MUTHUKUMAR M	Vector processing

48	922515104050	NANDHINI K	NVIDIA architecture models – Fermi, Tesla, Kepler, Maxwell, Pascal
49	922515104051	NANDHINI M	Classification of Instruction Set Architectures (ISA) – RISC, CISC, VLIW, EPIC
50	922515104052	NANDHINI R	NVIDIA architecture models – Fermi, Tesla, Kepler, Maxwell, Pascal
51	922515104055	NIMMAGADDA LOWKYA	Introduction to Computer Design and Quantitative Principles of Architecture Performance Analysis
52	922515104301	GANESHAMOORTHY	Architecture physical layer concepts including device layout, manufacturing constraints, architectures, defect tolerance, and design variability

Signature of the Faculty Member

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